A

CATALOGUE

OF THE

Officers and Students

OF

HAVERFORD COLLEGE,

FOR THE

ACADEMICAL YEAR

1856-7.

PHILADELPHIA:
PRINTED BY JOSEPH RAKESTRAW.
1856.

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GRADUATES.

1836.

NAMES.	RESIDENCE.	
THOMAS F. COCK, M. D.,	New York	N. Y.
JOSEPH WALTON,	Philadelphia	P'a.

1837.

WILLIAM C. LONGSTRETH,	Philadelphia	P'a.
DAVID C. MURRAY,	New York	N. Y.
LINDLEY MURRAY,	New York	N. Y.
BENJAMIN V. MARSH,	Rahway	N. J.
JOSEPH L. PENNOCK,	Philadelphia	P'a.
ROBERT B. PARSONS,	Flushing	N. Y.
CHARLES L. SHARPLESS,	Philadelphia	P'a.
LLOYD P. SMITH,	Philadelphia	P'a.
B. WYATT WISTAR,	Philadelphia	P'a.

1838.

JAMES V. EMLEN, M. D.,	Philadelphia	P'a.
JOHN ELLIOTT,	Philadelphia	P'a.

1839.

FREDERICK COLLINS,	Philadelphia	P'a.
THOMAS P. COPE,	Philadelphia	P'a.
HENRY HARTSHORNE, M. D.,	Philadelphia	P'a.
NEREUS MENDENHALL, M. D.,	Guilford Co.	N. C.
RICHARD RANDOLPH, Jun., M. D.	Philadelphia	P'a.
CHARLES TABER,	New Bedford	Mass.

1840.

JOSEPH HOWELL,	Philadelphia	P'a.
ANTHONY M. KIMBER,	Philadelphia	P'a.
HENRY H. G. SHARPLESS,	Philadelphia	P'a.
JOHN R. WINSLOW, M. D.,	Hertford	N. C.

1841.

NAMES.	RESIDENCE.	
RICHARD H. LAWRENCE,	New York	N. Y.
JAMES P. PEROT,	Philadelphia	P'a.
ELIAS A. WHITE,	North Carolina	N. C.

1842.

ROBERT BOWNE,	New York	N. Y.
RICHARD CADBURY,	Philadelphia	P'a.
WILLIAM S. HILLES,	Wilmington	Del.
THOMAS KIMBER, Jun.	Philadelphia	P'a.
JAMES J. LEVICK, M. D.,	Philadelphia	P'a.
EDMUND RODMAN,	New Bedford	Mass.
THOMAS RODMAN,	New Bedford	Mass.
BENJAMIN R. SMITH,	Haverford	P'a.
AUGUSTUS TABER,	New Bedford	Mass.
CALEB WINSLOW, M. D.,	Hertford	N. C.

1843.

ROBERT B. HOWLAND,	New Bedford	Mass.
FRANCIS WHITE,	North Carolina	N. C.
WILLIAM D. STROUD, M. D.,	Philadelphia	P'a.

1844.

EVAN T. ELLIS,	Philadelphia	P'a.
ISAAC HARTSHORNE,	Philadelphia	P'a.
ROBERT B. HAINES,	Germantown	P'a.

1845.

EDMUND CRENSHAW,	Richmond	V'a.
ROBERT PEARSALL,	Philadelphia	P'a.

1849.

ALBERT K. SMILEY,	Vassalborough	M'e.
ALFRED H. SMILEY,	Vassalborough	M'e.

1851.

JOSEPH L. BAILEY,	Berks Co.	P'a.
PHILIP C. GARRETT,	Philadelphia	P'a.
THOMAS J. LEVICK	Philadelphia	P'a.
FRANKLIN E. PAIGE,	Weare	N. H.
ZACCHEUS TEST, M. D.,	Richmond	Ind.
JAMES C. THOMAS, M. D.,	Baltimore	M'd.
RICHARD WOOD,	Philadelphia	P'a.

1852.

NAMES.	RESIDENCE.	
DOUGAN CLARK,	New Garden	N. C.
LEWIS N. HOPKINS,	Baltimore	M'd.
WILLIAM L. KINSMAN,	Salem	Mass.
WILLIAM E. NEWHALL,	Philadelphia	P'a.
JAMES WHITALL,	Philadelphia	P'a.

1853.

WILLIAM B. MORGAN,	Raysville	Ind'a.
WILLIAM H. PANCOAST,	Philadelphia	P'a.

1854.

FREDERICK ARTHUR, Jun.,	Nantucket	R. I.
JOHN W. CADBURY,	Philadelphia	P'a.
JOHN B. GARRETT,	Philadelphia	P'a.
DAVID SCULL, Jun.,	Philadelphia	P'a.

1855.

SAMUEL BETTLE,	Philadelphia	P'a.
JOHN R. HUBBARD,	New Garden	N. C.

1856.

BARTHOLOMEW W. BEESLEY,	Philadelphia	P'a.
JOEL CADBURY, Jun.,	Philadelphia	P'a.
JONATHAN J. COMFORT,	Tecumseh	Mich.
JAMES M. WALTON,	Philadelphia	P'a.
EDWARD R. WOOD,	Philadelphia	P'a.

UNDER GRADUATES.

SENIORS.

NAMES.	RESIDENCE.	
Jesse S. Cheyney,	Thornbury	P'a.
*Edgar Cope,	Montrose	P'a.
Cyrus Mendenhall,	Plainfield	Ind'a.
Stephen Wood,	Bedford	N. Y.

JUNIORS.

*Alfred Brooke,	West Haverford	P'a.
Thomas H. Burgess,	Harveysburg	O.
Thomas Clark,	Carthage	Ind'a.
Paschall Hacker,	Philadelphia	P'a.
Daniel W. Hunt,	Annapolis	Ind'a.
*William G. Rhoads,	Philadelphia	P'a.
Samuel T. Satterthwaite,	Chesterfield	N. J.
Joseph W. Starr,	Richmond	Ind'a.
William G. Tyler,	Salem	N. J.
Thomas Wistar,	Philadelphia	P'a.
*James Wood,	Bedford	N. Y.
Ellis H. Yarnall,	Philadelphia	P'a.

SECOND JUNIORS.

William H. Brown, Jun.,	Chestnut Hill	P'a.
Richard W. Chase,	Burlington	N. J.
James W. Cromwell,	New York	N. Y.
Fowell Buxton Hill,	New Market	N. C.
*George H. Hopkins,	Haddonfield	N. J.

* Pursuing a partial Course.

NAMES.	RESIDENCE.	
Cyrus Lindley,	Monrovia	Ind'a.
*Henry G. Morris,	Philadelphia	P'a.
Morton Morris,	West Chester	P'a.
Theodore H. Morris,	Philadelphia	P'a.
James R. Magee,	Philadelphia	P'a.
*Dillwyn Parrish, Jun.,	Philadelphia	P'a.
*James C. Parrish,	Philadelphia	P'a.
Richard C. Paxson,	Philadelphia	P'a.
Edward Rhoads,	Philadelphia	P'a.
Edward C. Sampson,	Manchester	Me.
George Sampson,	Manchester	Me.
*Henry Sampson,	Manchester	Mo.
Abram Sharples,	Ivy Mills	P'a.
Benjamin H. Smith,	Upper Darby	P'a.
Thomas C. Steele,	Pottstown	P'a.
*William I. Tomlinson,	Laurel Mills	N. J.
*Thomas Wildes,	Arney	N. J.
John S. Witmer,	Paradise	P'a.

THIRD JUNIORS.

Benjamin Brooke,	Media	P'a
*William W. Colket,	Philadelphia	P'a.
William B. Corbit,	Odessa	Del.
William M. Corlies,	Strickersville	P'a
John S. Harris,	Westminster	N. C.
Walter G. Hopkins,	Haddonfield	N. J.
William J. Hull,	Baltimore	M'd.
Benjamin H. Jessup,	Cinnaminson	N. J.
John A. Lang,	Vassalborough	M'e.
Joshua Lippincott, Jun.,	Cinnaminson	N. J.
Frederick W. Morris,	Philadelphia	P'a.
Isaac N. Merritt,	Harts Village	N. Y.
Richard Pancoast,	Philadelphia	P'a.
*Charles I. Pleasants,	Sunbury	P'a.
Clement L. Smith,	Upper Darby	P'a.
Thomas C. Smith,	Philadelphia	P'a.
*Edward B. Underhill, Jun.,	White Stone	L. I.
William H. Underhill,	Indianapolis	Ind'a.
Francis A. N. Wood,	New York	N. Y.
George Wood,	Philadelphia	P'a.
Edwin Yardley,	Yardleyville	P'a.

ACADEMICAL DEPARTMENT.

NAMES.	RESIDENCES.
William Broomall,	Chester, P'a
Joseph Exton,	Clinton, N. J.
Ivins D. Jones,	Florence, N. J.
William N. Potts,	Germantown, P'a.
William E. Smith,	Philadelphia, P'a.
Theodore Starr,	Philadelphia, P'a.
John Spencer Stokes,	Moorestown, N. J.
*Edwin Tomlinson,	Laurel Mills, N. J
Roberts Vaux,	Philadelphia, P'a.
William H. Willets,	New York, N. Y.

SUMMARY.

GRADUATES,.....71

UNDER GRADUATES.

SENIORS,	4
JUNIORS,	12
SECOND JUNIORS,	23
THIRD JUNIORS,	21
ACADEMICAL STUDENTS,	10
TOTAL,	70

☞ APPLICATIONS FOR ADMISSION must be made to the Secretary of the Board of Managers, CHARLES YARNALL, No. 39 Market Street, Philadelphia.

It is desirable that candidates should be equally advanced in the Classical, Mathematical, and English departments, that they may be able to enter in regular standing.

COURSE OF STUDY.

THIRD JUNIOR CLASS.

MATHEMATICS.

Algebra,	*Alsop.*
Elementary Trigonometry,	*Gummere.*
Geometry,	*First Six Books of Euclid.*
Surveying,	*Gummere, through Ch. 3.*

GREEK AND LATIN LANGUAGES.

Greek Testament,	*Greenfield.*
The Anabasis of Xenophon.	*Owen.*
Greek Syntax,	*Crosby.*
Virgil,	*Schmitz or Gould.*
Latin Prosody.	
Latin Prose Composition,	*Arnold.*

ENGLISH LITERATURE, ETC.

English Compositions.	
Chemistry,	*Stockhardt.*
Universal History,	*Weber.*
Geology, commenced,	*Hitchcock.*
Drawing.	

SECOND JUNIOR CLASS.

MATHEMATICS.

Surveying, completed.	
Geometry of Planes.	
Plane and Spherical Trigonometry,	*Lewis.*
Descriptive Astronomy, to Part II.,	*Herschel.*

GREEK AND LATIN LANGUAGES.

The Anabasis of Xenophon, . . .	*Owen.*
The Iliad or Odyssey of Homer.	
Greek Prose Composition, ...	*Arnold.*
Cicero's Orations, ...	*Johnson.*
Livy, ...	*Lincoln.*
Latin Prose Composition continued.	

ENGLISH LITERATURE, ETC.

Physical Geography, ...	*Guyot.*
Geology continued,	
Chemistry, ...	*Johnson's Turner's.*
Evidences of Christianity, ...	*Paley.*
Drawing.	

JUNIOR CLASS.

MATHEMATICS.

Descriptive Astronomy, continued, . .	*Herschel.*
Natural Philosophy, ...	*Olmsted.*
Analytical Geometry, ...	*Davies.*

GREEK AND LATIN LANGUAGES.

The Œdipus Tyrannus of Sophocles, . .	*Crosby.*
Demosthenes on the Crown, ...	*Champlin.*
Greek Composition, continued, . . .	*Arnold.*
Horace, ...	*Lincoln.*
Tacitus's Germania and Agricola, . . .	*Tyler.*
Latin Composition, continued, . . .	*Arnold.*
Latin Syntax, ...	*Zumpt.*

ENGLISH LITERATURE, ETC.

Rhetoric, ...	*Whately*
Intellectual Philosophy, ...	*Wayland,*
Commentaries on American Law, . .	*Kent.*
Moral Philosophy, ...	*Dymond.*
Themes,	
Drawing.	

SENIOR CLASS.

MATHEMATICS.

Practical Astronomy, ...	*Loomis.*
Differential and Integral Calculus, . .	*Courtenay.*

GREEK AND LATIN LANGUAGES.

Demosthenes on the Crown, completed, .	*Champlin.*
Thucydides, ...	*Owen,*
Greek Compositions.	
Cicero's Tusculan Disputations, I., . .	*Chase.*
Juvenal, ...	*Leverett.*
The Captivi of Plautus.	
Latin Compositions and Extemporalia.	

ENGLISH LITERATURE, ETC.

Logic, ...	*Whately.*
Political Economy, ...	*Wayland.*
Lectures on Modern History, . . .	*Arnold.*
Analogy of Natural and Revealed Religion,	*Butler.*

ACADEMICAL DEPARTMENT.

Arithmetic.	
Algebra, ...	*Alsop's First Lessons.*
Latin Grammar, ...	*Andrews & Stoddard.*
Latin Reader, ...	*Andrews.*
Cæsar, ...	"
Greek Grammar, ...	*Crosby or Sophocles.*
Greek Reader, ...	*Jacob or Felton.*
Geography, ...	*Pelton's, with Outline Maps.*
English Grammar, ...	*Brown.*
Elements of History.	
English Composition.	
Elocution, ...	*Town's Fourth Reader.*

Lectures.

During the Winter Term, Lectures are delivered by the different Teachers, in regular order, on subjects connected with their Departments. The subjects vary from year to year, in order to give each class, in the four years of the collegiate course, as full a view of the different fields illustrated as practicable. The course for the winter of 1856-57 is as follows:

Chemistry, ...	Professor Swift.
Greek Literature, ...	" Chase.
Anatomy and Physiology, .	Timothy Nicholson.
Astronomy, ...	Tutor Stuart.

Examinations.

Near the close of each Summer Term, there is a Private Examination of the Second Junior and of the Senior Classes,—of the former upon the studies of the first two years of the Course, preparatory to advancement to the Junior Class, and of the latter upon those of the last two years, for the Degree of Bachelor of Arts. The Examinations are conducted upon the following plan.

The members of the Class under Examination are seated in a room by themselves, and each student is furnished with a set of questions, (the same to each), upon some book in the course, which he is required to answer in writing, without consulting any person or book. The time of writing, for the examination in each book, is limited to four hours. The questions are upon topics and passages selected throughout the text-books, and are calculated to test as accurately as possible the student's knowledge of the subject.

To each question a certain numerical value is assigned, according to its importance and difficulty. The answers in each Department are examined by the Teacher of that Department, who places against each answer that is substantially correct, the number affixed to the corresponding question; except when the answer is either imperfect, or distinguished for merit; in which case, instead of this number, he places a lower or a higher one, as the case may be, to express his estimate of the value of the answer. A student must gain credit for at least one half of all the numbers in each book studied in the course, and also for two-thirds of all the numbers in each Department, before he can be advanced to the Junior Class, or be graduated and receive the Diploma of a Bachelor of Arts.

At the end of each Term there is a Public Examination of all the Classes.

Astronomical Observatory.

With a view of furnishing to the Students in the higher classes, the means of becoming familiar with the construction and use of Astronomical Instruments, and of acquiring, from actual observation, a practical acquaintance with Astronomy, an excellent Observatory has within a few years been erected near the College. The building is of stone, and consists of a central part 20 feet square, and of nearly the same height, with wings 15 feet square to the East and West, and surmounted by a revolving Dome, 19 feet in diameter.

The instruments with which it is furnished, are an Equatorial Telescope; a Meridian Transit Circle; a Prime-Vertical Transit; a Siderial Clock; and Bond's ingenious and beautiful "Spring Governor."

The Equatorial, by Henry Fitz of New York, has an aperture of 8¼ inches, and a focal length of 11 feet. It is mounted in the Fraunhofer style, on a marble pedestal 8 feet high, which rests upon a stone pier 6 feet in diameter, passing through, but not in contact with, the floors of the building, and solidly imbedded several feet below the surface of the ground. The Telescope has an excellent spider-line, and also an annular-micrometer, with six eye-pieces, varying in magnifying power from 60 to 900 times. It is likewise provided with a Clock movement, by which the object is kept steadily in the field of view, and whose attachment is such as allows the tube to be turned while the clock is in operation.

In the West wing is mounted the Meridian Circle, of the German form, and made by William J. Young of Philadelphia. It

has an excellent Telescope of 4 inches aperture, and 5 feet focus, with a circle at each end of the axis 26 inches in diameter; one reading by four verniers, to two seconds of arc,—the other used simply as a finder. The instrument is supported by marble piers, 5 feet high, firmly based on masonry.

In the Eastern wing is a Siderial Clock by Harpur of Philadelphia, the gift of the late Thomas P. Cope. It is made with a glass pendulum, and the well known mercurial compensation, and is in all respects a most elegant and trustworthy instrument. In the same room with the clock, and connected with it by copper wires,—which wires also lead to a Grove's Battery in a small adjoining apartment and thence to all the other instruments in the Observatory,—is the "Spring Governor." This is the name of an instrument, devised by its inventor, William C. Bond, of Cambridge, Massachusetts, to carry a cylinder, with an equable rotary motion, so that it may make one entire revolution in one minute of Siderial time. A sheet of paper is wrapped around the cylinder, and on this paper the commencement of each second is recorded by a fountain pen, whose movements are produced by a soft iron magnet, coiled with the copper wire which leads to the Battery, and are in exact coincidence with the beats of the clock. The Observer at each Telescope is furnished with a "break-circuit" key, by which means he is enabled to make a record of his observations on the paper covering the cylinder, among the second marks of the clock, in such a manner, and with such accuracy, that the tenths of a second may be read off without difficulty or possibility of error.

The whole cost of the Observatory was about $7000. Of this, $2500 was expended upon the building alone; the remainder in furnishing the instruments it contains.

Library and Apparatus.

The LIBRARY of the College has been selected with great care. The number of volumes is at present about 2500, additions to which are frequently made. Besides a good selection of classical, scientific, and popular works in various departments, it includes the valuable mathematical collection of the late John Gummeré, the most approved Lexicons, and many of the best German commentaries on the Greek and Latin authors.

The Library of the Loganian Society contains about 800 volumes.

A large and expensive APPARATUS has been provided for the illustration of Natural Philosophy and Chemistry; and additions are from time to time made to it, as the progress of the Sciences requires. The Classical Department is furnished with Kiepert's valuable series of Wall Maps.

Chemical Laboratory.

IN the rear of the Lecture and Apparatus Rooms, is a large, thoroughly ventilated, and well-furnished Laboratory, in which the students are familiarized with Chemical Manipulations. These operations are conducted under the supervision of the Professor of Chemistry, and afford ample means for a practical acquaintance with this important branch of study.

Mineralogical and Geological Cabinets.

The extensive Mineralogical collection of the late Dr. Troost occupies the cases in the Collection Room. A Geological Cabinet has also been formed, comprising complete suites of specimens illustrating the Geology of New York and South Carolina, prepared for the College by the late Lardner Vanuxem. Continual additions are making to this department.

The Loganian Society.

This Society, established by the Officers and Students of the School in 1834, has been in successful operation to this time. The exercises in its weekly meetings are Discussions, Declamations, Original Essays, etc. The Society publishes a manuscript paper or magazine, monthly. It has in its possession a carefully selected library of upwards of 800 volumes, a museum of curiosities, and a carpenter's shop, furnished with a lathe and a complete set of tools. A large and well furnished gymnasium, also, is under its direction, and is much used by the members.

Committees are appointed in the Departments of Ornithology, Entomology, Botany, and Meteorology. Their researches and observations are presented to the Society in monthly reports, often of great interest and value. Another Committee has attached labels to the trees and shrubs on the Lawn, bearing their scientific and popular names, thus greatly enhancing the practical value of the Arboretum. Funds for this purpose were kindly furnished by friends of the College.

Object and Situation of the College.

About the year 1830, a strong interest was manifested by Friends in New York, Philadelphia, and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed in the higher branches of learning. Measures were accordingly taken for this object; subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legislature of Pennsylvania. The buildings were erected and the School was opened in the year 1833. In 1856 an additional act of the Legislature was procured, giving the Institution the rights and title,—as it had always had the character,—of a College.

The College has a remarkably pleasant and healthy location, on the Columbia Rail Road, nine miles west of Philadelphia. The buildings are situated on a lawn of forty acres, which is finely laid out with walks and terraces, and which, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the state. All the Students board at the Institution, each one being furnished with a separate room. The number that can be accommodated is 75. Gas-works have been put up, and gas introduced throughout the buildings.

Terms, Tuition, Etc.

THERE are two Terms in the year; the Winter Term of six months, commencing on the second Fourth-day in the Tenth month;—and the Summer Term of four months, commeneing on the second Fourth-day in the Fifth month. Two vaeations occur—one in the Spring and the other in the Autumn. No student is admitted except at the opening of a Term, and never for a period less than one year. A rule of the Association directs, that "The College shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society."

The price for Board and Tuition is $250 per annum, payable as follows, viz: $75 at the opening of the Winter Term, $75 at the middle of it, and $100 at the opening of the Summer Term.